COB - BOSAIR FORM

09/18/2025 9:10 AM (MST)

Submitted by Sabrina.Walker@pima.gov



BOARD OF SUPERVISORS AGENDA ITEM REPORT (BOSAIR)

All fields are required. Enter N/A if not applicable. For number fields, enter 0 if not applicable.

Record Number: PO PDC PO2400007958

Award Type: Contract

Is a Board Meeting Date

Requested?

Yes

Requested Board Meeting Date: 10/14/2025

NO Signature Only:

Procurement Director Award /

Delegated Award:

N/A

Supplier / Customer / Grantor /

Subrecipient:

HDR Engineering, Inc.

Project Title / Description:

Design Engineering Services For: Madera Canyon, Medium Wash Bridge Replacement (4MADMB) and Madera Canyon, Florida Canyon Wash Bridge

Replacement (4MADFL)

Purpose:

Amendment: Contract No. PO2400007958, Amendment No. 2. This amendment extends the term of the Contract to 3/31/29 to incorporate additional temporary construction easements and right of way delineations, and to allow for post-design services during the construction phase, and increases the contract amount by

\$99,895.02 for a cumulative not-to-exceed amount of \$1,569,446.15. Administering Department: Project Design and Construction.

Procurement Method:

Other

Insert additional Procurement Method info, if applicable:

Pursuant to Solicitation for Qualifications No. RFQu-24000075, the Board of Supervisors awarded a contract for this Project in a not-to-exceed amount of

\$1,469,551,13 for a contract term from 10/14/24 to 10/14/27.

Amendment No. 1, was approved by the Procurement Director, on 05/14/25, to replace the proposal from subconsultant Wheat Design Group with the proposal from J2 Engineering & Environmental Design, L.L.C. due to a legal name change by acquisition, effective March 27, 2025.

Attachment: Amendment No. 2.

Program Goals/Predicted Outcomes:

Madera Canyon Road, as a Scenic Corridor, provides recreational access to the Madera Canyon Recreation area. It also is the only access for lodging and residences within this area. The road is two-lanes except where it is restricted in three locations to single-lane traffic. Two of these locations are the bridges at Medium Wash and Florida Canyon Wash. Between both bridges is a single-lane culvert crossing which is not eligible for OSB funding, and therefore not contained in

TO: COB, 10/1/25 (1) VERSION: 3

PAGES: 26

SEP30'25PM0143PO

Metrics Available to Measure Performance:

Consultant and Contractor performance evaluations will be used to measure compliance with the project's scope, schedule, and budget. This assessment will determine if the work was satisfactorily delivered in a manner that meets expectations defined in the program goals.

Retroactive: NO

Amendment / Revised Award Information Record Number: PO PDC PO2400007958 **Document Type:** PO **Department Code:** PDC Contract Number: PO2400007958 Amendment Number: 2 Commencement Date: 10/14/2025 Termination Date: 03/31/2029 Is the Termination Date new? YES Classification: Expense Adjust Level: Increase **Prior Contract Number (If** N/A

Applicable).	
Amount This Amendment:	
\$99,895.02	
Funding Source(s) required:	U.S. Department of Transportation Federal Highway Administration (FHWA) Off System Bridge (OSB) Funds 93.64% Pima County Highway User Revenue Funds (HURF) 6.36%
Funding from General Fund?	NO
Contract is fully or partially funded v	with Federal Funds?
If Yes, is the Contract to a supplier or subrecipient?	Supplier
Enter CFDA#	20.205
and FAIN#	Medium Wash Bridge 693JJ22430000Y120AZPPM0274; Florida Wash Bridge 693JJ22430000Y120AZPPM73
Associated AmpliFund Grant Record ID#	Medium Wash Bridge 70008; Florida Wash Bridge 70007
Advantage Initial GTAW# (If Applicable):	N/A
Department:	Procurement
Name:	Judy Cooper $\mathcal{G}^{\mathcal{C}}$
Telephone:	520-724-3727
Add GMI Department Signatures	No
Division Manager/Procurement Offic	cer Signature: Scott Loomis Digitally signed by Scott Loomis Date: 2025.09.19 15:50:35 -07'00' Pate: Date:
Procurement Director Signature:	Date:
Department Director Signature:	
Deputy County Administrator Signat	ture: Date:
County Administrator Signature:	90° Date: 9123 1705

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PIMA COUNTY PROJECT DESIGN AND CONSTRUCTION DEPARTMENT

PROJECT: Design Engineering Services For: Madera Canyon, Medium Wash Bridge Replacement

(4MADMB) and Madera Canyon, Florida Canyon Wash Bridge Replacement (4MADFL)

CONSULTANT: HDR Engineering, Inc.

1 South Church Avenue, Suite 1400

Tucson, AZ 85701

CONTRACT NO.: PO2400007958

AMENDMENT NO: 2

FUNDING: U.S. Department of Transportation Federal Highway Administration (FHWA) Off System

Bridge (OSB) Funds 93.64%

Pima County Highway User Revenue Funds (HURF) 6.36%

 CONTRACT TERM: 10/15/24 - 10/14/27
 ORIGINAL CONTRACT AMOUNT: \$ 1,469,551.13

 TERMINATION PRIOR AMENDMENT: 03/31/29
 PRIOR AMENDMENT(S): \$ 99,895.02

 TERMINATION THIS AMENDMENT: 03/31/29
 AMOUNT THIS AMENDMENT: \$ 1,569,446.15

CONTRACT AMENDMENT

WHEREAS, COUNTY and CONSULTANT have entered into the Contract referenced above; and

WHEREAS, COUNTY intends to extend the term of the Contract to 03/31/29 to incorporate additional temporary construction easements and right of way delineations, and to allow for post-design services during the construction phase, and increase the contract amount by \$99,895.02 for a cumulative not-to-exceed amount of \$1,569,446.15; and

WHEREAS, COUNTY and CONSULTANT have agreed to the modifications.

NOW, THEREFORE, it is agreed as follows:

CHANGE: ARTICLE 1 – TERM AND EXTENSION/RENEWAL/CHANGES, 1st paragraph, 1st sentence, as

follows:

FROM: "This Contract, as approved by the Board of Supervisors, commences on October 15, 2024, and

terminates on October 14, 2027..."

TO: "This Contract, as approved by the Board of Supervisors, commences on October 15, 2024, and

terminates on March 31, 2029..."

CHANGE: ARTICLE 2 – SCOPE OF SERVICES, 1st paragraph, 1st sentence, as follows:

FROM: "CONSULTANT agrees to provide design engineering services for the COUNTY as described in

EXHIBIT "A" -SCOPE OF SERVICES..."

TO: "CONSULTANT agrees to provide design engineering services for the COUNTY as described in

EXHIBIT "A" -SCOPE OF SERVICES and EXHIBIT "A-1" -SCOPE OF SERVICES (16 pages).."

CHANGE: ARTICLE 4 – COMPENSATION AND PAYMENT, 2nd paragraph, 1st sentence, as follows:

FROM: "CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this

Contract in such manner that each major deliverable will have associated with it a not-to-exceed

cost, plus a fixed fee amount, incorporated herein as EXHIBIT "B" - COMPENSATION

SCHEDULE and EXHIBIT "B-1" - COMPENSATION SCHEDULE."

Contract No. PO240007958-02

TO:

"CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT "B" – COMPENSATION SCHEDULE, EXHIBIT "B-1" – COMPENSATION SCHEDULE, and EXHIBIT "B-2" – COMPENSATION SCHEDULE (8 PAGES)"

ATTACH: EXHIBIT "A-1" SCOPE OF SERVICES (16 pages)
EXHIBIT "B-2" - COMPENSATION SCHEDULE (8 pages)

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the Parties.

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Amendment on the dates written

PIMA COUNTY:

CONSULTANT:

Jason Fort, P.E., Vice President, Area Manager
Name and Title (Please Print)

9/23/2025

Date

ATTEST:

Clerk of the Board

This contract template has been approved as to form by the Pima County Attorney's Office.

EXHIBIT "A-1" - SCOPE OF SERVICES (16 PAGES)



SCOPE OF DESIGN WORK FOR THE MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADMB) FEDERAL ID PPM-0(274) D ADOT TRACS NO. T0541 01D/03D

August 25, 2025

Mr. Joshua Orth Project Manager, PLA Pima County Project Design and Construction 150 W. Congress Street, 3rd Floor Tucson, AZ 85701

RE: Design Engineering Services for Madera Canyon, Medium Wash Bridge Replacement (Pima County Project No. 4MADBR, ADOT Project No. T0541 03D) and Madera Canyon, Florida Canyon Wash Bridge Replacement (Pima County Project No. 4MADFL, ADOT Project No. T0540 03D)

Contract Amendment 2 – ROW Plans, Additional ROW, TCE, & Abandonment Delineations

Dear Mr. Orth:

As the design has progressed on the two Madera Canyon Road Bridge Replacement Projects (Medium Wash - 4MADBR, and Florida Canyon Wash - 4MADFL), it has been identified that changes need to be made to HDR's scope of work. These changes include new right-of-way (ROW) that will need to be acquired, additional temporary construction easements (TCEs), added ROW abandonment areas, additional supplemental field surveys, added ROW plan sheets, and additional coordination with the Arizona State Land Department (ASLD) and Pima County. Since this additional work was not anticipated or included in HDR's scope of work, we are requesting a contract amendment to increase our cost-plus-fixed-fee contract amount to include this work. Below is a detailed description of the additional work required for this contract amendment.

- 1. Project Management (Task A.1): This task includes additional project management required to include the additional legal descriptions and ROW plans into the project. It includes time for additional coordination between design disciplines, additional meetings, internal project reviews, managing staff, budget tracking and progress reports. It is anticipated that while the design will be substantially complete in November of 2025, HDR's services will be required until construction authorization is obtained between March to May of 2026, which adds an additional five to seven months of project coordination prior to the project being advertised for bids. Currently, HDR has used approximately 90% of their project management budget. This task is expected to help HDR manage the project through construction authorization in March to May of 2026, though additional resources may be required depending on the level of engagement and support needed.
- 2. **Utility Coordination (Task A.5):** HDR's scope of work included providing utility coordination services focusing on the two known public utility companies within the project limits, namely Trico Electric and Lumen Communications. As the design has progressed, it has been



determined that there are existing private waterlines that need to be relocated prior to construction or protected during construction and the design team will need to coordinate and detail this effort. The private waterlines belong to the Santa Rita Ranch and cross Madera Canyon Road and cross the Medium Wash and Florida Canyon Washes. HDR will meet with the Santa Rita Ranch staff regarding the waterlines, identify and resolve conflicts, identify potential locations to install sleeves through the bridge approach roadways for the waterlines to be relocated, provide details for the sleeves on the plan sheets, and include requirements in the special provisions. It is anticipated that the waterlines will be moved by the Santa Rita Ranch personnel prior to or during construction, however, the installation of sleeves will be the responsibility of the county's construction contractor.

- 3. New TCE and ROW Delineation (Tasks A.7 & A.15): HDR's current scope of work (Task A.7.11) includes the preparation of four legal descriptions, two for each bridge project. These include two legal descriptions for new ROW for the gaps between the original 66-foot ROW and that acquired from a previous project and two legal descriptions for TCEs for each project's detour (one for each project). Additionally, it has been identified that new ROW and new TCEs are required to build and maintain the newly widened roadway. Two additional TCEs and one area of ROW abandonment are needed for the Florida Canyon Wash bridge project and additionally one TCE, one area of new ROW, and one area of ROW abandonment is needed for the Medium Wash Bridge project. The three TCEs are required along the east existing ROW near the washes for construction of cut slopes and installing fill slope erosion protection. The area of new ROW is located along the eastern side of Madera Canyon Road between existing ROW centerline station 238+60 to 242+70. This area of new ROW is needed to allow vertical curve flattening to increase stopping sight distance and to provide room to install erosion protection on the fill slope north of Medium Wash Bridge. The two areas of ROW abandonment are located along the west existing R/W at the washes to accommodate a land exchange with ASLD for the areas of new ROW. Incorporating these additional TCEs, ROW, and abandonment areas into the project will require the following tasks:
 - Legal Descriptions: HDR will prepare six additional legal descriptions with exhibits
 for the needed new ROW, TCEs, and abandonment areas. The exhibits will be shown
 both with and without aerial backgrounds. HDR will prepare the preliminary legal
 descriptions for ASLD review and coordination. Upon ASLD approval, HDR will
 provide sealed legal descriptions for ASLD acquisitions. This task also includes
 additional research into the existing ROW documentation to assist with the
 preparation of the legal descriptions.
 - Plan Preparation: HDR will show the new ROW, TCEs, and abandonment areas on the Geometric Layout Sheets that they have developed for each bridge project for use as ASLD Exhibits while the ROW plans are being prepared. HDR will incorporate review comments from the County and ASLD. HDR's subconsultant ALTA will be tasked with preparing the preliminary ROW plan sheets, final ROW plan sheets, and a sealed record of survey for the Pima County Recorder's Office. This work will include establishing up to 25 survey monuments, utilizing a 1/2-inch rebar with tag, along the east existing ROW at centerline control points, station equations, and vertices.



- Supplemental Survey: HDR's subconsultant, ALTA, will be tasked with conducting verification surveys to make sure the ROW monuments that are called out on the plan sheets are in place and are in the correct location for use as reference monuments in the legal descriptions. ALTA will also locate existing fences within the added acquisition areas.
- **Coordination:** HDR will provide additional coordination with ASLD and Pima County to assist the county with obtaining these acquisitions.

If you have questions or need additional information, please let me know.

Sincerely,

HDR Engineering, Inc.

Ted w. Buell

Ted W. Buell, PE

Structures Section Manager

Project Manager

Jason Fort, PE

Vice President, Area Manager



geotechnical

PROPOSAL for PROFESSIONAL SURVEYING SERVICES

Proposal No.:241122 - Alta Contract Modification #1

survey

Date: August 8, 2025

environmenta**l**

Client: HDR. Inc.

special inspections

1 S Church Ave, #1400 Tucson, AZ 85701

material testing

Project: Madera Canyon – Alta Contract Modification #1 (Project Contract Amendment #2)

Pima County

Attention: Ted Buell

Alta Survey, LLC dba Alta Arizona, appreciates the opportunity to provide you with this proposal to provide professional survey services for the Madera Canyon project. Alta will utilize previous survey control and right-of-way information performed by Johnson Brittain/HDR for the Florida Canyon Wash and Medium Wash bridges. The following survey services will be provided by Alta Arizona (hereinafter referred to as "Alta"):

Phoenix

Florence

MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADBR) FEDERAL ID PPM-0(274) D / ADOT TRACS NO. T0541 01D/03D

Tucson MARDEDA CANIVON ELODIDA

MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL)

FEDERAL ID PPM-0(273) D / ADOT TRACS NO. T0540 01D/03D

Sierra Vista

TASK A.7 SURVEY AND MAPPING

Task A.7.8. Culture Surveys. ALTA Survey, LLC will verify/locate fences within acquisition areas.

Task A.7.9. Right-of-Way of Surveys. ALTA Survey, LLC will perform additional verification surveys to search for controlling survey monuments including right-of-way centerline monuments, controlling right-of-way corners and existing occupation, to confirm the existing right-of-way lines and centerline. Verify the section corner of 10 11 15 & 14. Establish up to twenty-five (25) right-of-way monuments. Prepare new right-of-way plan sheets for new right-of-way, TCEs, and abandonment areas determined to be required to build and maintain the newly widened roadway.

Deliverables:

I800 W Broadway

Suite 5 Tempe, AZ 85282 Digital ASCII point files in comma delimited format.

- Field survey information
- Preliminary Right-of-Way Plans (Estimated 8 Sheets).
- Final sealed Right-of-Way Plans (Estimated 8 Sheets).
- Responses to all review comments.

2025 W Ruthrauff Rd Suite 125 Tucson, AZ 85705

MEDIUM WASH BRIDGE FEE FLORIDA CANYON WASH BRIDGE FEE

\$7,799.84 \$7,799.84

ARIZONA

SURVEY . ENGINEERING . GEOTECH

520.398.665 I

I hope that this proposal is responsive to your request in terms of services, fee and schedule. If you have any questions or concerns, please contact me at 520.398.6651 or at patricia.gajda@altaei.com.

Best regards, Alta Arizona

Patricia Gajda, RLS Survey Manager

Proposal for Professional Surveying Services
Proposal No.: 241122 – Alta Contract Modification #1

Notice Part Part Notice Part	ID		Task Name	Duration	Start	Finish	Resource Names	Aug 18, Oct 27, Ja	in 5, '2 Mar 16	5, May 25, Aug 3,	Oct 12, Dec 21	, Mar 1, '2 May S w S т	10, Jul 19, '2 Sep 27,	Dec 6, '2 Feb 14, Ap	- 25, Jul 4, '2' S W S T
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10	8	Develop Existing Utilitie	es Mapping Base Files	30 days	Fri 11/29/24	Thu 1/9/25									
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Plans for Utility Companies [Final Design Phase)	10	List of Utility Impacts a	nd Mitigation Measures & Prior Rights	2 days	Mon 2/24/25	Tue 2/25/25									
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30 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Fri 3/28/25 31 PCDOT Review Scoping List & Letters 12 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Manual Summary Rollup External Milestone Manual Progress	28	Environmental Coordin	ation Meeting	1 day	Fri 12/20/24	Fri 12/20/24									
31 PCDOT Review Scoping List & Letters 12 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Madera Canyon Road Bridges Date: Tue 9/9/25 Task Split Inactive Task Manual Summary Rollup External Milestone Manual Summary Deadline Milestone Summary Manual Task Finish-only Critical Summary Critical Split	29	Revised Project Footpr	int (to include Add'l TCEs)	10 days	Mon 2/17/25	Fri 2/28/25									
Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Task Inactive Task Manual Summary Rollup External Milestone Manual Summary Deadline Milestone Inactive Summary Start-only Critical Split Manual Task Finish-only 1 Critical Split	30	Draft Agency Scoping L	ist & Letters to PCDOT	20 days	Mon 3/3/25	Fri 3/28/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Task Inactive Task Manual Summary Rollup External Milestone Manual Progress Manual Progress Manual Progress Manual Progress Manual Summary Deadline Critical Summary Manual Task Finish-only Critical Split	31	PCDOT Review Scoping	List & Letters	12 days	Mon 3/31/25	Tue 4/15/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Split Milestone Milestone Manual Summary Deadline Critical Critical Split Manual Summary Deadline Critical Split	32	Draft Agency Scoping L	ist & Letters to ADOT for review	10 days	Wed 4/16/25	Tue 4/29/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Milestone Summary Manual Task Finish-only Critical Split			Task	Inactive Task		Manual Summa	ry Rollup	External	Milestone	♦	Manual P	rogress			
Date: Tue 9/9/25 Milestone Summary Manual Task Finish-only Critical Split Critical Split	Made	era Canvon Road Bridges	Split	Inactive Mileston	e 🔷	Manual Summa	ry	Deadline		•					
Summary		,	Milestone	Inactive Summar	y	Start-only	С	Critical							
Project Summary Duration-only External Tasks Progress			Summary	Manual Task		Finish-only	3	Critical S	plit						
			Project Summary	Duration-only	10 Cd 00 Ag 12 Cd 12 Cd	External Tasks		Progress							

ID	Task Name	Duration	Start	Finish	Resource Names	Aug 18, Oct 27, Jan 5, '2 Mar 16, May 25, Aug 3, '2 Oct 12, Dec 21, Mar 1, '2 May 10, Jul 19, '2 Sep 27, Dec 6, '2 Feb 14, Apr 25, Jul 4, M F T S W S T M F T S W S T M F T S W S T M F T S W S
33	Final Scoping Letters to Agencies (+ Comment Period)	22 days	Wed 4/30/25	Thu 5/29/25		
34	Cultural Resources Survey	10 days	Fri 11/22/24	Thu 12/5/24		
35	Draft Cultural Resources Inventory and Report	61 days	Fri 12/6/24	Fri 2/28/25		
36	Final Cultural Resources Inventory and Report	20 days	Mon 3/3/25	Fri 3/28/25		
37	Section 106 Consultation	20 days	Tue 5/6/25	Mon 6/2/25		
38	Pima Pineapple Survey	15 days	Fri 11/22/24	Thu 12/12/24		
39	Cactus Owl (CFPO) Surveys (Not Required) (Jan 1 - June 30th)	129 days	Wed 1/1/25	Mon 6/30/25		
40	Yellow-Billed Cuckoo (YBCU) Surveys (Not Required) (3 Surveys between 6/15 & 8/15)	46 days	Sun 6/15/25	Fri 8/15/25		
41	Geotechnical Biological Evaluation (Use BE for overall project)	20 days	Mon 3/24/25	Fri 4/18/25		
42	Draft Biological Evaluation/Wildlife Habitat	123 days	Fri 12/13/24	Tue 6/3/25		
43	Final Biological Evaluation/Wildlife Habitat	10 days	Wed 6/25/25	Tue 7/8/25		
44	Draft Preliminary Jurisdictional Determination request	121 days	Mon 12/23/24	Mon 6/9/25		
45	Final Preliminary Jurisdictional Determination request	10 days	Tue 6/10/25	Mon 6/23/25		
46	Draft Preliminary Initial Site Assessment (PISA) Plus Lead & Asbestos Reports	20 days	Mon 3/3/25	Fri 3/28/25		
47	Final Preliminary Initial Site Assessment (PISA) Plus Lead & Asbestos Reports	30 days	Mon 3/31/25	Fri 5/9/25		
48	Native Plant Inventory and Releves	50 days	Mon 2/17/25	Fri 4/25/25		
49	Riparian Mitigation Exhibit for Pima County Flood Control	20 days	Mon 6/9/25	Fri 7/4/25		
50	ADOT Compiles CE Documents	13 days	Wed 7/16/25	Fri 8/1/25		
51	ADOT Issues Categorical Exclusion	0 days	Fri 8/1/25	Fri 8/1/25		8/1
52	DRAINAGE EVALUATION & DESIGN	249 days	Tue 1/21/25	Fri 1/2/26		
53	Drainage Criteria Review Meeting	1 day	Tue 1/21/25	Tue 1/21/25		
54	Initial Design Phase Drainage Evaluation & Report	27 days	Wed 1/22/25	Thu 2/27/25		
55	Final Design Phase Drainage Report	100 days	Mon 6/9/25	Fri 10/24/25		
56	Final PS&E Phase Drainage Report	50 days	Mon 10/27/25	Fri 1/2/26		
57	GEOTECHNICAL & PAVEMENT DESIGN	260 days	Mon 2/17/25	Fri 2/13/26		
58	Geotechnical Exploration & Access Plan	25 days	Mon 2/17/25	Fri 3/21/25		
59	Env. Clearance for Geotechnical Investigation (Cleared with CE) 0 days	Fri 8/1/25	Fri 8/1/25		B/1
60	Geotechnical Field Subsurface Investigation & Lab Testing	25 days	Mon 9/8/25	Fri 10/10/25		
61	Initial Geotechnical Data Report	25 days	Mon 10/13/25	Fri 11/14/25		
62	Geotechnical Analysis	20 days	Mon 11/17/25	Fri 12/12/25		
63	Initial Geotechnical Foundation Report	15 days	Mon 12/15/25	Fri 1/2/26		
	Task	Inactive Task		Manual Summar	v Rollup	External Milestone Manual Progress
	Split	Inactive Mileston	e	Manual Summar		Deadline +
	a Canyon Road Bridges	Inactive Summary		Start-only	, <u> </u>	Critical
Date: I	Tue 9/9/25 Summary	Manual Task	, -	Finish-only	_	Critical Split
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ID	Task Name	Duration	Start	Finish	Resource Names	Aug 18,	Oct 27,	Jan 5, ' w c	2 Mar 16, May 25, Aug 3,	'2 Oct	12, Dec	21, Mar 1, '2 N	1ay 10, Jul 19, '2	Sep 27, Dec 6, '	Feb 14, Apr 25,	Jul 4, '2 w c
64	Final Geotechnical Data Report	23 days	Mon 11/17/25	Wed 12/17/25		141 1		,,,,	1 1 1 1 3 1 7 7		·VI	. , J , VV 3	, 1 IVI I I	<u> </u>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
65	Final Geotechnical Foundation Report	30 days	Mon 1/5/26	Fri 2/13/26												
66	Pavement Design	218 days	Wed 1/22/25	Fri 11/21/25												
67	Vehicle Classification Tube Counts	5 days	Wed 1/22/25	Tue 1/28/25				1		$\neg \parallel$						
68	Preliminary Pavement Design Report and ESAL Calculations	10 days	Mon 10/13/25	Fri 10/24/25												
69	Final Pavement Design Report	20 days	Mon 10/27/25	Fri 11/21/25												
70	PROJECT ASSESSMENT	228 days	Fri 11/8/24	Tue 9/23/25					1							
71	Prepare preliminary roadway plans	40 days	Fri 11/8/24	Thu 1/2/25												
72	Prepare preliminary detour plans	40 days	Fri 11/8/24	Thu 1/2/25												
73	Evaluate Bridge Structure Types	40 days	Fri 11/8/24	Thu 1/2/25												
74	Cost Estimate for PA	31 days	Fri 1/3/25	Fri 2/14/25												
75	Prepare Initial Project Assessment Report	40 days	Mon 12/23/24	Fri 2/14/25												
76	Submit Initial PA (to PCDOT)	0 days	Fri 2/14/25	Fri 2/14/25					2/14							
77	PCDOT Review of PA	15 days	Mon 2/17/25	Fri 3/7/25				+								
78	Submit Revised Initial PA - for ADOT Review	35 days	Mon 3/10/25	Fri 4/25/25												
79	ADOT Review of Initial PA	14 days	Mon 4/28/25	Thu 5/15/25												
80	Submit Final PA	16 days	Fri 5/16/25	Fri 6/6/25												
81	ADOT Review of Final PA	15 days	Wed 9/3/25	Tue 9/23/25												
82	ADOT Approval of Final PA	0 days	Tue 9/23/25	Tue 9/23/25						9/2	3					
83	PREPARATION OF CONSTRUCTION DOCUMENTS	352 days	Fri 11/8/24	Mon 3/16/26												
84	Initial Design Phase Plans	86 days	Fri 11/8/24	Fri 3/7/25					1							
85	Roadway Plans	35 days	Fri 11/8/24	Thu 12/26/24												
86	Detour Plans	35 days	Fri 11/8/24	Thu 12/26/24												
87	Bridge Plans	45 days	Fri 11/8/24	Thu 1/9/25												
88	Submit Initial Design Phase Plans	0 days	Fri 2/14/25	Fri 2/14/25				*	2/14							
89	PCDOT Review	15 days	Mon 2/17/25	Fri 3/7/25				*								
90	Final Design Phase Plans	80 days	Mon 3/10/25	Fri 6/27/25					1							
91	Roadway Plans	65 days	Mon 3/10/25	Fri 6/6/25												
92	Detour Plans	65 days	Mon 3/10/25	Fri 6/6/25												
93	Bridge Plans	65 days	Mon 3/10/25	Fri 6/6/25												
94	Drainage Plans	65 days	Mon 3/10/25	Fri 6/6/25				,								
95	Pavement Markings and Signing	65 days	Mon 3/10/25	Fri 6/6/25					<u> </u>							
96	Submit Final Design Phase Plans	0 days	Fri 6/6/25	Fri 6/6/25					6/6							
97	PCDOT & ADOT Review	15 days	Mon 6/9/25	Fri 6/27/25					<u> </u>							
98	Initial PS&E Plans	105 days	Mon 6/30/25	Fri 11/21/25					<u> </u>							
99	Roadway Plans	67 days	Mon 6/30/25	Tue 9/30/25						$\vdash \parallel$						
	Task	Inactive Task		Manual Summa	ry Rollup		Extern	al Miles	tone 🔷		Manua	l Progress				
Mada	ra Canyon Poad Bridges	Inactive Mileston	ne 🔷	Manual Summa	ry	1	Deadli	ne	•							
	ra Canyon Road Bridges Tue 9/9/25 Milestone	Inactive Summa	ry	Start-only	Е		Critica	I								
_ 2.0.	Summary	Manual Task		Finish-only	3		Critica	l Split								
	Project Summary	Duration-only		External Tasks			Progre	ess								
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100 5-1	Task Name	Duration	Start	Finish	Resource Names	ug 18, Oct 27, Jan 5, '2 Mar 1 M F T S W S T M	16, May 25, Aug 3, '4 Oo	t 12, Dec 21, Mar 1, '	May 10, Jul 19, '2 Sep 27,	Dec 6, '2 Feb 14, Ap	r 25, Jul 4,
100 Detour Plans		30 days	Mon 6/30/25	Fri 8/8/25		171 1 3 77 3 1 171	, , , , , , , , , , , , , , , , , , ,		<u> </u>	, <u>3 1 191 F 1 </u>	5 VV 3 I
101 Bridge Plans		67 days	Mon 6/30/25	Tue 9/30/25							
102 Drainage Plans		67 days	Mon 6/30/25	Tue 9/30/25							
103 Pavement Markin	gs and Signing	30 days	Mon 6/30/25	Fri 8/8/25							
104 Erosion Control PI	ans, Native Plant Preservation Plans	67 days	Mon 6/30/25	Tue 9/30/25							
105 Landscape Mitigat	ion Plans & Details	67 days	Mon 6/30/25	Tue 9/30/25							
106 Special Provisions		67 days	Mon 6/30/25	Tue 9/30/25							
107 Cost Estimate		67 days	Mon 6/30/25	Tue 9/30/25			*				
108 Submit Initial PS&	E Plans, Specs & Estimate	0 days	Fri 10/31/25	Fri 10/31/25				10/31			
109 PCDOT & ADOT Re	eview	15 days	Mon 11/3/25	Fri 11/21/25			1				
110 Final PS&E Plans		56 days	Mon 11/24/25	Mon 2/9/26				r			
111 Roadway Plans		46 days	Mon 11/24/25	Mon 1/26/26							
112 Detour Plans		20 days	Mon 11/24/25	Fri 12/19/25							
113 Bridge Plans		46 days	Mon 11/24/25	Mon 1/26/26							
114 Drainage Plans		20 days	Mon 11/24/25	Fri 12/19/25							
115 Pavement Markin	gs and Signing	20 days	Mon 11/24/25	Fri 12/19/25							
116 Erosion Control Pl	ans, Native Plant Preservation Plans	20 days	Mon 11/24/25	Fri 12/19/25							
117 Landscape Mitigat	ion Plans & Details	20 days	Mon 11/24/25	Fri 12/19/25							
118 SWPPP Document		20 days	Mon 11/24/25	Fri 12/19/25							
119 Special Provisions		46 days	Mon 11/24/25	Mon 1/26/26							
120 Cost Estimate		46 days	Mon 11/24/25	Mon 1/26/26							
121 Submit Final PS&E Unsealed)	Plans, Specs & Estimate (Checkset -	0 days	Mon 1/26/26	Mon 1/26/26				1/26			
122 PCDOT Review		5 days	Tue 1/27/26	Mon 2/2/26				*			
123 Final Revisions		5 days	Tue 2/3/26	Mon 2/9/26				, and the second			
124 Submit Final PS&E	Plans, Specs & Estimate (Sealed)	0 days	Mon 2/9/26	Mon 2/9/26				2/9			
125 Submit Bid-Ready Co	nstruction Documents (to ADOT)	1 day	Mon 2/16/26	Mon 2/16/26							
126 ADOT Construction A	authorization	20 days	Tue 2/17/26	Mon 3/16/26				*			
127 DESIGN COMPLETE - A	DVERTISE FOR BIDS	0 days	Mon 3/16/26	Mon 3/16/26				3/1	16		
128 Open Bids		30 days	Tue 3/17/26	Mon 4/27/26				_			
129 Award Contract - Issue	NTP to Contractor	0 days	Wed 7/8/26	Wed 7/8/26					7/8		
130 Construction		260 days	Thu 7/9/26	Wed 7/7/27					*		
131 PROJECT DESIGN & CO	NSTRUCTION COMPLETE	0 days	Wed 7/7/27	Wed 7/7/27							7/7



SCOPE OF DESIGN WORK FOR THE MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL) FEDERAL ID PPM-0(273) D ADOT TRACS NO. T0540 01D/03D

August 25, 2025

Mr. Joshua Orth Project Manager, PLA Pima County Project Design and Construction 150 W. Congress Street, 3rd Floor Tucson, AZ 85701

RE: Design Engineering Services for Madera Canyon, Medium Wash Bridge Replacement (Pima County Project No. 4MADBR, ADOT Project No. T0541 03D) and Madera Canyon, Florida Canyon Wash Bridge Replacement (Pima County Project No. 4MADFL, ADOT Project No. T0540 03D)
Contract Amendment 2 – ROW Plans, Additional ROW, TCE, & Abandonment

Dear Mr. Orth:

Delineations

As the design has progressed on the two Madera Canyon Road Bridge Replacement Projects (Medium Wash - 4MADBR, and Florida Canyon Wash - 4MADFL), it has been identified that changes need to be made to HDR's scope of work. These changes include new right-of-way (ROW) that will need to be acquired, additional temporary construction easements (TCEs), added ROW abandonment areas, additional supplemental field surveys, added ROW plan sheets, and additional coordination with the Arizona State Land Department (ASLD) and Pima County. Since this additional work was not anticipated or included in HDR's scope of work, we are requesting a contract amendment to increase our cost-plus-fixed-fee contract amount to include this work. Below is a detailed description of the additional work required for this contract amendment.

- 1. **Project Management (Task A.1):** This task includes additional project management required to include the additional legal descriptions and ROW plans into the project. It includes time for additional coordination between design disciplines, additional meetings, internal project reviews, managing staff, budget tracking and progress reports. It is anticipated that while the design will be substantially complete in November of 2025, HDR's services will be required until construction authorization is obtained between March to May of 2026, which adds an additional five to seven months of project coordination prior to the project being advertised for bids. Currently, HDR has used approximately 90% of their project management budget. This task is expected to help HDR manage the project through construction authorization in March to May of 2026, though additional resources may be required depending on the level of engagement and support needed.
- 2. **Utility Coordination (Task A.5):** HDR's scope of work included providing utility coordination services focusing on the two known public utility companies within the project limits, namely Trico Electric and Lumen Communications. As the design has progressed, it has been



determined that there are existing private waterlines that need to be relocated prior to construction or protected during construction and the design team will need to coordinate and detail this effort. The private waterlines belong to the Santa Rita Ranch and cross Madera Canyon Road and cross the Medium Wash and Florida Canyon Washes. HDR will meet with the Santa Rita Ranch staff regarding the waterlines, identify and resolve conflicts, identify potential locations to install sleeves through the bridge approach roadways for the waterlines to be relocated, provide details for the sleeves on the plan sheets, and include requirements in the special provisions. It is anticipated that the waterlines will be moved by the Santa Rita Ranch personnel prior to or during construction, however, the installation of sleeves will be the responsibility of the county's construction contractor.

- 3. New TCE and ROW Delineation (Tasks A.7 & A.15): HDR's current scope of work (Task A.7.11) includes the preparation of four legal descriptions, two for each bridge project. These include two legal descriptions for new ROW for the gaps between the original 66-foot ROW and that acquired from a previous project and two legal descriptions for TCEs for each project's detour (one for each project). Additionally, it has been identified that new ROW and new TCEs are required to build and maintain the newly widened roadway. Two additional TCEs and one area of ROW abandonment are needed for the Florida Canyon Wash bridge project and additionally one TCE, one area of new ROW, and one area of ROW abandonment is needed for the Medium Wash Bridge project. The three TCEs are required along the east existing ROW near the washes for construction of cut slopes and installing fill slope erosion protection. The area of new ROW is located along the eastern side of Madera Canyon Road between existing ROW centerline station 238+60 to 242+70. This area of new ROW is needed to allow vertical curve flattening to increase stopping sight distance and to provide room to install erosion protection on the fill slope north of Medium Wash Bridge. The two areas of ROW abandonment are located along the west existing R/W at the washes to accommodate a land exchange with ASLD for the areas of new ROW. Incorporating these additional TCEs, ROW, and abandonment areas into the project will require the following tasks:
 - Legal Descriptions: HDR will prepare six additional legal descriptions with exhibits
 for the needed new ROW, TCEs, and abandonment areas. The exhibits will be shown
 both with and without aerial backgrounds. HDR will prepare the preliminary legal
 descriptions for ASLD review and coordination. Upon ASLD approval, HDR will
 provide sealed legal descriptions for ASLD acquisitions. This task also includes
 additional research into the existing ROW documentation to assist with the
 preparation of the legal descriptions.
 - Plan Preparation: HDR will show the new ROW, TCEs, and abandonment areas on the Geometric Layout Sheets that they have developed for each bridge project for use as ASLD Exhibits while the ROW plans are being prepared. HDR will incorporate review comments from the County and ASLD. HDR's subconsultant ALTA will be tasked with preparing the preliminary ROW plan sheets, final ROW plan sheets, and a sealed record of survey for the Pima County Recorder's Office. This work will include establishing up to 25 survey monuments, utilizing a 1/2-inch rebar with tag, along the east existing ROW at centerline control points, station equations, and vertices.



- Supplemental Survey: HDR's subconsultant, ALTA, will be tasked with conducting verification surveys to make sure the ROW monuments that are called out on the plan sheets are in place and are in the correct location for use as reference monuments in the legal descriptions. ALTA will also locate existing fences within the added acquisition areas.
- **Coordination:** HDR will provide additional coordination with ASLD and Pima County to assist the county with obtaining these acquisitions.

If you have questions or need additional information, please let me know.

Sincerely,

HDR Engineering, Inc.

Ted w. Buell

Ted W. Buell, PE

Structures Section Manager

Project Manager

Jason Fort, PE

Vice President, Area Manager



geotechnical

PROPOSAL for PROFESSIONAL SURVEYING SERVICES

Proposal No.:241122 - Alta Contract Modification #1

survey

Date: August 8, 2025

environmenta**l**

Client: HDR. Inc.

special inspections

1 S Church Ave, #1400 Tucson, AZ 85701

material testing

Project: Madera Canyon – Alta Contract Modification #1 (Project Contract Amendment #2)

Pima County

Attention: Ted Buell

Alta Survey, LLC dba Alta Arizona, appreciates the opportunity to provide you with this proposal to provide professional survey services for the Madera Canyon project. Alta will utilize previous survey control and right-of-way information performed by Johnson Brittain/HDR for the Florida Canyon Wash and Medium Wash bridges. The following survey services will be provided by Alta Arizona (hereinafter referred to as "Alta"):

Phoenix

MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADBR) FEDERAL ID PPM-0(274) D / ADOT TRACS NO. T0541 01D/03D

Tucson Florence

MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL)

FEDERAL ID PPM-0(273) D / ADOT TRACS NO. T0540 01D/03D

Sierra Vista

TASK A.7 SURVEY AND MAPPING

Task A.7.8. Culture Surveys. ALTA Survey, LLC will verify/locate fences within acquisition areas.

Task A.7.9. Right-of-Way of Surveys. ALTA Survey, LLC will perform additional verification surveys to search for controlling survey monuments including right-of-way centerline monuments, controlling right-of-way corners and existing occupation, to confirm the existing right-of-way lines and centerline. Verify the section corner of 10 11 15 & 14. Establish up to twenty-five (25) right-of-way monuments. Prepare new right-of-way plan sheets for new right-of-way, TCEs, and abandonment areas determined to be required to build and maintain the newly widened roadway.

Deliverables:

I800 W Broadway

Suite 5 Tempe, AZ 85282 Digital ASCII point files in comma delimited format.

Field survey information

- Preliminary Right-of-Way Plans (Estimated 8 Sheets).
- Final sealed Right-of-Way Plans (Estimated 8 Sheets).
- Responses to all review comments.

2025 W Ruthrauff Rd Suite I25 Tucson, AZ 85705

MEDIUM WASH BRIDGE FEE FLORIDA CANYON WASH BRIDGE FEE

\$7,799.84 \$7,799.84

ARIZONA

SURVEY . ENGINEERING . GEOTECH

520.398.665 I

I hope that this proposal is responsive to your request in terms of services, fee and schedule. If you have any questions or concerns, please contact me at 520.398.6651 or at patricia.gajda@altaei.com.

Best regards, Alta Arizona

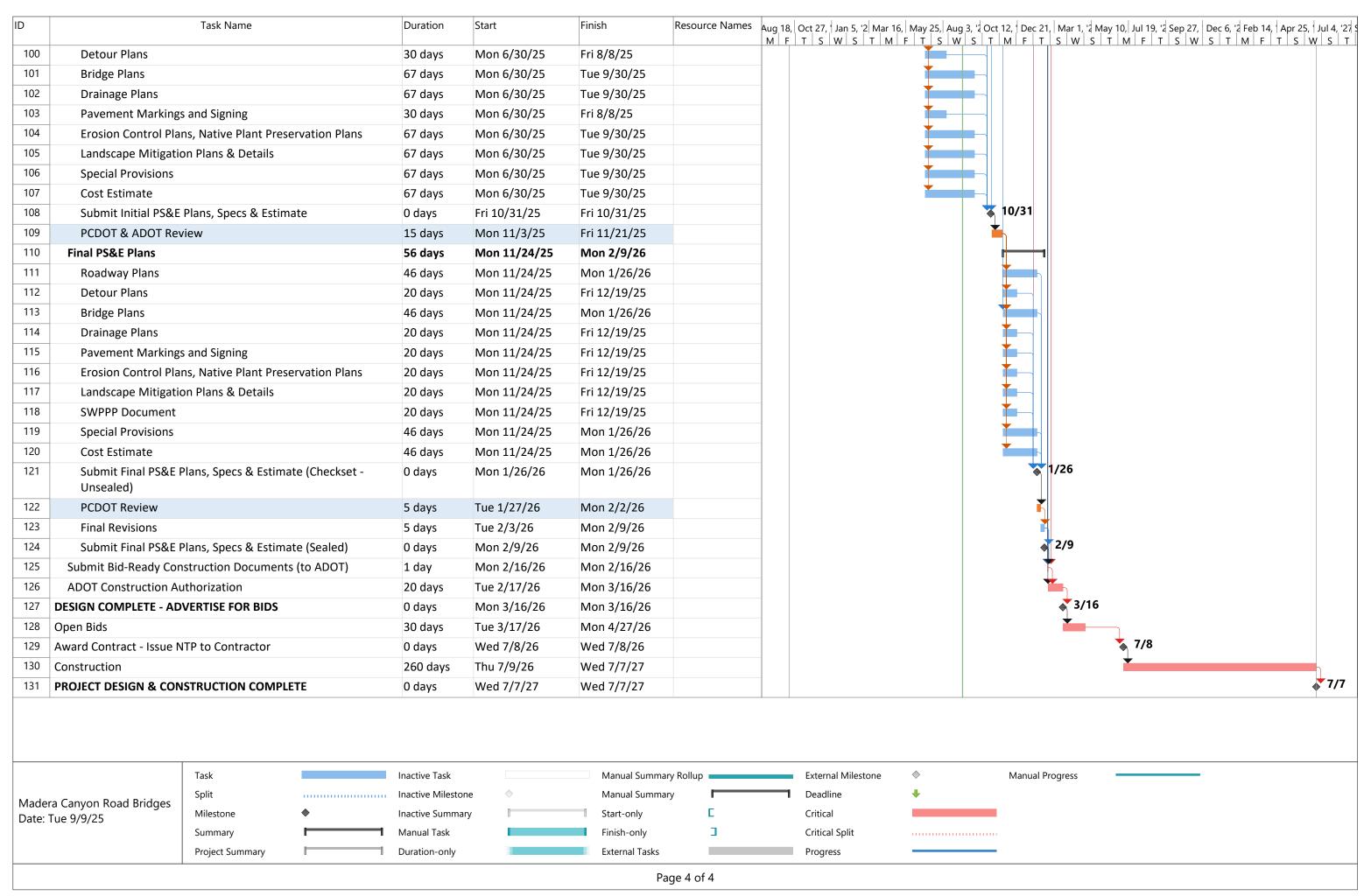
Patricia Gajda, RLS Survey Manager

Proposal for Professional Surveying Services
Proposal No.: 241122 – Alta Contract Modification #1

Notice Part Part Notice Part	ID		Task Name	Duration	Start	Finish	Resource Names	Aug 18, Oct 27, Ja	in 5, '2 Mar 16	5, May 25, Aug 3,	Oct 12, Dec 21	, Mar 1, '2 May S w S т	10, Jul 19, '2 Sep 27,	Dec 6, '2 Feb 14, Ap	- 25, Jul 4, '2' S W S T
Note Part	1	NOTICE-TO-PROCEED		0 days	Thu 10/17/24	Thu 10/17/24		10/17	, 5 1 141	. , , , , , , , , , ,	<u>, , , 191 1 1 1 1 1 1 1 1 1</u>	,	,. ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
## Accord Colfurate ## Accord Colfurnate ## Accord	2	Kick-Off Meeting		1 day	Thu 11/7/24	Thu 11/7/24									
Martine Mart	3	Initial Project Schedule		15 days	Fri 10/18/24	Thu 11/7/24									
Suburit Refinitivary Notification to Utility Companies 3 day fri 11/45/24 Fri 11/15/24 Fri 11/15/24 Pewelop Estiting Utilities Mapping Base Hels 30 day Fri 11/25/24 The 11/9/25 Fri 71/15/25 Fri	4	Base Cost Estimate		45 days	Thu 10/17/24	Wed 12/18/24									
Devolute pulsetake for Design 9 days Mon 1/13/274 Thu 1/13/274 Thu 1/13/274 Thu 1/13/274 Thu 1/13/274 Thu 1/13/275 Thu 1/13	5	UTILITIES		386 days	Thu 10/17/24	Thu 4/9/26						\neg			
Develop Existing Utilities Mapping Base Files 30 days Fil 11/20/24 Thu 19/25 The 19/25 The 19/25 The 19/25 The 29/25 The	6	Submit Preliminary Not	tification to Utility Companies	1 day	Fri 11/15/24	Fri 11/15/24									
Plans for Utility Companies (Initial Design Phase) Sdays Mon 97/17/5 Fri 27/17/5 True	7	Submit Bluestake for D	esign	9 days	Mon 11/18/24	Thu 11/28/24									
10	8	Develop Existing Utilitie	es Mapping Base Files	30 days	Fri 11/29/24	Thu 1/9/25									
Utility Coordination Meeting (As Needed)	9	Plans for Utility Compa	nies (Initial Design Phase)	5 days	Mon 2/17/25	Fri 2/21/25									
Plans for Utility Companies [Final Design Phase)	10	List of Utility Impacts a	nd Mitigation Measures & Prior Rights	2 days	Mon 2/24/25	Tue 2/25/25									
Stabilsh Utility Relocation Date (RDR & Firma Country)	11	Utility Coordination Me	eeting (As Needed)	1 day	Mon 3/17/25	Mon 3/17/25									
Submit Notice of Relocation and Indennification & Request S days Mon 7/14/25 Fri 7/18/25 Fri 7/18/25 Submit Notice of Receptance (From Utility Companies) 10 days Wed 9/17/25 Tue 9/38/25 Submit Notice of Receptance (From Utility Companies) 10 days Wed 9/17/25 Tue 11/25/25 Submit Notice of Receptance (From Utility Companies) 10 days Wed 9/17/25 Tue 11/25/25 Submit Notice of Receptance (From Utility Companies) 1 day Wed 9/17/25 Tue 11/25/25 Submit Notice of Receptance (From Utility Companies) 1 day Wed 9/17/24 Tue 10/17/24 Tue 10/17/25	12	Plans for Utility Compa	nies (Final Design Phase)	5 days	Mon 6/9/25	Fri 6/13/25									
Clearance Letters of Acceptance (From Utility Companies)	13	Establish Utility Reloca	tion Date (HDR & Pima County)	5 days	Mon 7/7/25	Fri 7/11/25				T					
10	14		ation and Indenmification & Request	5 days	Mon 7/14/25	Fri 7/18/25				†					
17	15	Letters of Acceptance (From Utility Companies)	10 days	Wed 9/17/25	Tue 9/30/25									
18 Aerial Mapping & Base Topo Dwgs (Provided by Previous Project - by IBA/HDR) 19 Field Surveys (Utillity, Culture, Detour, R/W Verification) 107 days Thu 12/5/24 Fri 5/2/25 21 TCE Parcel List and ASLD Acquisition Exhibit 20 days Fri 11/8/24 Thu 12/5/44 22 Revised TCE Parcel List and ASLD Acquisition Exhibit 23 Mon 8/25/25 Mon 8/25/25 24 State Land Coordination (By County w/ HDR Support) 25 TCE Approval by ASLD (For Detour) 26 ENVIRONMENTA & RPE CA Extivities 191 days Thu 14/21/24 Fri 8/15/25 27 Establish Project Footprint 28 Environmental Coordination Meeting 29 Revised Project Footprint 20 days Thu 11/21/24 Fri 8/15/25 20 Environmental Coordination Meeting 20 days Thu 11/21/24 Fri 8/15/25 21 TCE Approval by ASLD (For Detour) 22 Odays Thu 11/21/24 Fri 8/15/25 23 Environmental Coordination Meeting 24 In 11/21/24 Fri 8/15/25 25 Extablish Project Footprint 26 Odays Thu 11/21/24 Fri 8/15/25 27 Establish Project Footprint 28 Environmental Coordination Meeting 29 Revised Project Footprint (to include Add'I TCEs) 20 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 True 4/15/25 30 Draft Agency Scoping List & Letters 21 days Mon 3/3/25 Tue 4/15/25 31 PCDOT Review Scoping List & Letters 21 Lodays Mon 3/3/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters 22 Agency Scoping List & Letters to ADOT for review 23 Nanual Summary 24 Manual Summary 25 State only 26 Critical 27 Critical 28 Summary 29 Set only 29 Poed Time 20 Manual Summary 20 Poed Time 20 Manual Summary 20 Poed Time 21 Critical 22 Critical 23 Critical Split	16	Utility Clearance		40 days	Wed 10/1/25	Tue 11/25/25									
Project - by JRA/HDR) Field Surveys (Utility, Culture, Detour, R/W Verification) 107 days Thu 12/5/24 Fri 5/2/25	17	SURVEYS - MAPPING -	RIGHT-OF-WAY PLANS	386 days	Thu 10/17/24	Thu 4/9/26		h				—			
Field Survey of Geotech Boring Locations 1 day Mon 8/25/25 Mon 8/25/25 Mon 8/25/25	18	, , ,		1 day	Thu 10/17/24	Thu 10/17/24		*							
TCE Parcel List and ASLD Acquisition Exhibit 20 days Fri 11/8/24 Thu 12/5/24 22 Revised TCE Parcel List and ASLD Acquisition Exhibit 3 Revised TCE Parcel List and ASLD Acquisition Exhibit 4 Revised TCE Parcel List and ASLD Acquisition Exhibit 5 Prepare additional Legal Descriptions & Supplemental Survey 20 days Fri 10/17/25 Thu 11/13/25 for ROW Monumentation 24 State Land Coordination (By County w/ HDR Support) 25 TCE Approval by ASLD (For Detour) 26 ENVIRONMENTAL & NEPA CE Activities 191 days Thu 11/21/24 Fri 8/15/25 27 Establish Project Footprint 28 Environmental Coordination Meeting 29 Revised Project Footprint (binclude Add'l TCEs) 30 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Fri 3/28/25 31 PCDOT Review Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Task Manual Summary Deadline Man	19	Field Surveys (Utility	, Culture, Detour, R/W Verification)	107 days	Thu 12/5/24	Fri 5/2/25									
Revised TCE Parcel List and ASLD Acquisition Exhibit 8 days Mon 2/17/25 Prepare additional Legal Descriptions & Supplemental Survey 20 days for ROW Monumentation 125 days Fri 10/17/25 Thu 11/13/25 Tote Approval by ASLD (For Detour) 125 days Tote Approval by ASLD (For Detour) 125 days Thu 4/9/26 ENVIRONMENTAL & NEPA CE Activities 191 days Thu 11/21/24 Fri 8/15/25 Tote Stablish Project Footprint 1 day 1 day 1 day 1 fri 12/20/24 Environmental Coordination Meeting 1 day 1 day 1 fri 12/20/24 Fr	20	Field Survey of Geot	ech Boring Locations	1 day	Mon 8/25/25	Mon 8/25/25									
Prepare additional Legal Descriptions & Supplemental Survey 20 days Fri 10/17/25 Thu 11/13/25 for ROW Monumentation 4 State Land Coordination (By County w/ HDR Support) 125 days Fri 10/17/25 Thu 4/9/26 Thu 4/9/26 TCE Approval by ASLD (For Detour) 0 days Thu 11/21/24 Fri 8/15/25 Thu 4/9/26 Thu 11/21/24 Thu 11/21/25 Tri 2/20/24 Tri 2/20/2	21	TCE Parcel List and A	SLD Acquisition Exhibit	20 days	Fri 11/8/24	Thu 12/5/24									
for ROW Monumentation 24	22	Revised TCE Parcel L	ist and ASLD Acquisition Exhibit	8 days	Mon 2/17/25	Wed 2/26/25									
TCE Approval by ASLD (For Detour) O days Thu 4/9/26 Thu 4/9/26 ENVIRONMENTAL & NEPA CE Activities 191 days Thu 11/21/24 Thu 11/21/24 Thu 11/21/24 Environmental Coordination Meeting 1 day Fri 12/20/24 Fri 12/20/24 Revised Project Footprint (to include Add'l TCEs) D raft Agency Scoping List & Letters to PCDOT D days Mon 3/3/25 Tue 4/15/25 Tue 4/15/25 Tue 4/15/25 Tue 4/29/25 Tue 4/29/25 Task Inactive Task Manual Summary Manual Summary Manual Summary Manual Summary Manual Summary Manual Summary Start-only Critical Critical Critical Split Manual Summary Manual Task Manual Summary Critical Split	23	· ·		ey 20 days	Fri 10/17/25	Thu 11/13/25									
Establish Project Footprint O days Thu 11/21/24 Fri 8/15/25 Thu 11/21/24 Fri 8/15/25 Thu 11/21/24 Environmental Coordination Meeting 1 day Fri 12/20/24 Fri 12/20/24 Fri 12/20/24 Pri 12/20/24 Fri 12/20/24 Fri 12/20/24 Pri 12/20/24 Fri 12/20/24 Fri 12/20/24 Pri 12/2	24	State Land Coordina	tion (By County w/ HDR Support)	125 days	Fri 10/17/25	Thu 4/9/26						4			
Establish Project Footprint O days Thu 11/21/24 Thu 11/21/24 Thu 11/21/24 Environmental Coordination Meeting 1 day Fri 12/20/24 Fri 12/20/24 Pri 12/20/25 Pri 2/28/25 Pri 3/28/25 Pri	25	TCE Approval by ASL	D (For Detour)	0 days	Thu 4/9/26	Thu 4/9/26						4/9			
28 Environmental Coordination Meeting 1 day Fri 12/20/24 Fri 12/20/24 29 Revised Project Footprint (to include Add'l TCEs) 10 days Mon 2/17/25 Fri 2/28/25 30 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Fri 3/28/25 31 PCDOT Review Scoping List & Letters 1 2 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Madera Canyon Road Bridges Date: Tue 9/9/25 Task Split Inactive Task Manual Summary Rollup External Milestone Manual Summary Deadline Milestone Inactive Summary Start-only Critical Split Manual Task Finish-only Critical Split	26	ENVIRONMENTAL & NEP	A CE Activities	191 days	Thu 11/21/24	Fri 8/15/25				1					
Revised Project Footprint (to include Add'l TCEs) 10 days Mon 2/17/25 Fri 2/28/25 30 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Fri 3/28/25 31 PCDOT Review Scoping List & Letters 12 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Manual Summary Rollup External Milestone Manual Progress Manual Progress Manual Summary Deadline Milestone Summary Manual Summary Manual Summary Start-only Critical Summary Manual Split Manual Split Manual Summary Manual Split Milestone Manual Split Manua	27	Establish Project Footp	rint	0 days	Thu 11/21/24	Thu 11/21/24		11/2	21						
30 Draft Agency Scoping List & Letters to PCDOT 20 days Mon 3/3/25 Fri 3/28/25 31 PCDOT Review Scoping List & Letters 12 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Manual Summary Rollup External Milestone Manual Progress	28	Environmental Coordin	ation Meeting	1 day	Fri 12/20/24	Fri 12/20/24									
31 PCDOT Review Scoping List & Letters 12 days Mon 3/31/25 Tue 4/15/25 32 Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Madera Canyon Road Bridges Date: Tue 9/9/25 Task Split Inactive Task Manual Summary Rollup External Milestone Manual Summary Deadline Milestone Summary Manual Task Finish-only Critical Summary Critical Split	29	Revised Project Footpr	int (to include Add'l TCEs)	10 days	Mon 2/17/25	Fri 2/28/25									
Draft Agency Scoping List & Letters to ADOT for review 10 days Wed 4/16/25 Tue 4/29/25 Task Inactive Task Manual Summary Rollup External Milestone Manual Summary Deadline Milestone Inactive Summary Start-only Critical Split Manual Task Finish-only 1 Critical Split	30	Draft Agency Scoping L	ist & Letters to PCDOT	20 days	Mon 3/3/25	Fri 3/28/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Task Inactive Task Manual Summary Rollup External Milestone Manual Progress Manual Progress Manual Progress Manual Progress Manual Summary Deadline Critical Summary Manual Task Finish-only Critical Split	31	PCDOT Review Scoping	List & Letters	12 days	Mon 3/31/25	Tue 4/15/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Split Milestone Milestone Manual Summary Deadline Critical Critical Split Manual Summary Deadline Critical Split	32	Draft Agency Scoping L	ist & Letters to ADOT for review	10 days	Wed 4/16/25	Tue 4/29/25									
Madera Canyon Road Bridges Date: Tue 9/9/25 Milestone Summary Manual Task Finish-only Critical Split			Task	Inactive Task		Manual Summa	ry Rollup	External	Milestone	♦	Manual P	rogress			
Date: Tue 9/9/25 Milestone Summary Manual Task Finish-only Critical Split Critical Split	Made	era Canvon Road Bridges	Split	Inactive Mileston	e 🔷	Manual Summa	ry	Deadline		•					
Summary		,	Milestone	Inactive Summar	y	Start-only	С	Critical							
Project Summary Duration-only External Tasks Progress			Summary	Manual Task		Finish-only	3	Critical S	plit						
			Project Summary	Duration-only	10 Cd 00 Ag 12 Cd 12 Cd	External Tasks		Progress							

ID	Task Name	Duration	Start	Finish	Resource Names	Aug 18, Oct 27, Jan 5, '2 Mar 16, May 25, Aug 3, '2 Oct 12, Dec 21, Mar 1, '2 May 10, Jul 19, '2 Sep 27, Dec 6, '2 Feb 14, Apr 25, Jul 4, M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M F T S W S T M T T S W S T M T T T T T T T T
33	Final Scoping Letters to Agencies (+ Comment Period)	22 days	Wed 4/30/25	Thu 5/29/25		
34	Cultural Resources Survey	10 days	Fri 11/22/24	Thu 12/5/24		
35	Draft Cultural Resources Inventory and Report	61 days	Fri 12/6/24	Fri 2/28/25		
36	Final Cultural Resources Inventory and Report	20 days	Mon 3/3/25	Fri 3/28/25		
37	Section 106 Consultation	20 days	Tue 5/6/25	Mon 6/2/25		
38	Pima Pineapple Survey	15 days	Fri 11/22/24	Thu 12/12/24		
39	Cactus Owl (CFPO) Surveys (Not Required) (Jan 1 - June 30th)	129 days	Wed 1/1/25	Mon 6/30/25		
40	Yellow-Billed Cuckoo (YBCU) Surveys (Not Required) (3 Surveys between 6/15 & 8/15)	46 days	Sun 6/15/25	Fri 8/15/25		
41	Geotechnical Biological Evaluation (Use BE for overall project)	20 days	Mon 3/24/25	Fri 4/18/25		
42	Draft Biological Evaluation/Wildlife Habitat	123 days	Fri 12/13/24	Tue 6/3/25		
43	Final Biological Evaluation/Wildlife Habitat	10 days	Wed 6/25/25	Tue 7/8/25		
44	Draft Preliminary Jurisdictional Determination request	121 days	Mon 12/23/24	Mon 6/9/25		
45	Final Preliminary Jurisdictional Determination request	10 days	Tue 6/10/25	Mon 6/23/25		
46	Draft Preliminary Initial Site Assessment (PISA) Plus Lead & Asbestos Reports	20 days	Mon 3/3/25	Fri 3/28/25		
47	Final Preliminary Initial Site Assessment (PISA) Plus Lead & Asbestos Reports	30 days	Mon 3/31/25	Fri 5/9/25		
48	Native Plant Inventory and Releves	50 days	Mon 2/17/25	Fri 4/25/25		
49	Riparian Mitigation Exhibit for Pima County Flood Control	20 days	Mon 6/9/25	Fri 7/4/25		
50	ADOT Compiles CE Documents	13 days	Wed 7/16/25	Fri 8/1/25		
51	ADOT Issues Categorical Exclusion	0 days	Fri 8/1/25	Fri 8/1/25		8/1
52	DRAINAGE EVALUATION & DESIGN	249 days	Tue 1/21/25	Fri 1/2/26		
53	Drainage Criteria Review Meeting	1 day	Tue 1/21/25	Tue 1/21/25		
54	Initial Design Phase Drainage Evaluation & Report	27 days	Wed 1/22/25	Thu 2/27/25		
55	Final Design Phase Drainage Report	100 days	Mon 6/9/25	Fri 10/24/25		
56	Final PS&E Phase Drainage Report	50 days	Mon 10/27/25	Fri 1/2/26		
57	GEOTECHNICAL & PAVEMENT DESIGN	260 days	Mon 2/17/25	Fri 2/13/26		
58	Geotechnical Exploration & Access Plan	25 days	Mon 2/17/25	Fri 3/21/25		
59	Env. Clearance for Geotechnical Investigation (Cleared with CE) 0 days	Fri 8/1/25	Fri 8/1/25		B/1
60	Geotechnical Field Subsurface Investigation & Lab Testing	25 days	Mon 9/8/25	Fri 10/10/25		
61	Initial Geotechnical Data Report	25 days	Mon 10/13/25	Fri 11/14/25		
62	Geotechnical Analysis	20 days	Mon 11/17/25	Fri 12/12/25		
63	Initial Geotechnical Foundation Report	15 days	Mon 12/15/25	Fri 1/2/26		
	Task	Inactive Task		Manual Summar	v Rollup	External Milestone Manual Progress
	Split	Inactive Mileston	e	Manual Summar		Deadline +
	a Canyon Road Bridges	Inactive Summary		Start-only	, <u> </u>	Critical
Date: I	Tue 9/9/25 Summary	Manual Task	, -	Finish-only	_	Critical Split
	Project Summary	Duration-only		External Tasks		Progress Progress
						1 Togress

D	Task Name	Duration	Start	Finish	Resource Names	Aug 18, Oct 27, Jan 5, 2 Mai	r 16, May 25, Aug 3,	t 12, Dec 21,	Mar 1, '2 May 10, Jul 19, '2 Sep 27, Dec 6, '2 Feb 14, Apr 25, Jul S W S T M F T S W S T M F T S W S
64	Final Geotechnical Data Report	23 days	Mon 11/17/25	Wed 12/17/25		, , , , , , , , , , , , , , , , , , ,	vi, i , i , 3 , VV , 3 , I	IVI I I	S 1 1 1V1 1 1 1 3 1VV 3 1 1 1V1 F 1 3 1VV 3
65	Final Geotechnical Foundation Report	30 days	Mon 1/5/26	Fri 2/13/26					
66	Pavement Design	218 days	Wed 1/22/25	Fri 11/21/25		1 		┥	
67	Vehicle Classification Tube Counts	5 days	Wed 1/22/25	Tue 1/28/25					
68	Preliminary Pavement Design Report and ESAL Calculations	10 days	Mon 10/13/25	Fri 10/24/25					
69	Final Pavement Design Report	20 days	Mon 10/27/25	Fri 11/21/25					
70	PROJECT ASSESSMENT	228 days	Fri 11/8/24	Tue 9/23/25			1		
71	Prepare preliminary roadway plans	40 days	Fri 11/8/24	Thu 1/2/25					
72	Prepare preliminary detour plans	40 days	Fri 11/8/24	Thu 1/2/25					
73	Evaluate Bridge Structure Types	40 days	Fri 11/8/24	Thu 1/2/25					
74	Cost Estimate for PA	31 days	Fri 1/3/25	Fri 2/14/25					
75	Prepare Initial Project Assessment Report	40 days	Mon 12/23/24	Fri 2/14/25					
76	Submit Initial PA (to PCDOT)	0 days	Fri 2/14/25	Fri 2/14/25		2/14	ı		
77	PCDOT Review of PA	15 days	Mon 2/17/25	Fri 3/7/25					
78	Submit Revised Initial PA - for ADOT Review	35 days	Mon 3/10/25	Fri 4/25/25					
79	ADOT Review of Initial PA	14 days	Mon 4/28/25	Thu 5/15/25					
80	Submit Final PA	16 days	Fri 5/16/25	Fri 6/6/25					
81	ADOT Review of Final PA	15 days	Wed 9/3/25	Tue 9/23/25					
82	ADOT Approval of Final PA	0 days	Tue 9/23/25	Tue 9/23/25			9/2	23	
83	PREPARATION OF CONSTRUCTION DOCUMENTS	352 days	Fri 11/8/24	Mon 3/16/26					-
84	Initial Design Phase Plans	86 days	Fri 11/8/24	Fri 3/7/25					
85	Roadway Plans	35 days	Fri 11/8/24	Thu 12/26/24					
86	Detour Plans	35 days	Fri 11/8/24	Thu 12/26/24					
87	Bridge Plans	45 days	Fri 11/8/24	Thu 1/9/25					
88	Submit Initial Design Phase Plans	0 days	Fri 2/14/25	Fri 2/14/25		2/14	<u> </u>		
89	PCDOT Review	15 days	Mon 2/17/25	Fri 3/7/25		*			
90	Final Design Phase Plans	80 days	Mon 3/10/25	Fri 6/27/25					
91	Roadway Plans	65 days	Mon 3/10/25	Fri 6/6/25					
92	Detour Plans	65 days	Mon 3/10/25	Fri 6/6/25					
93	Bridge Plans	65 days	Mon 3/10/25	Fri 6/6/25					
94	Drainage Plans	65 days	Mon 3/10/25	Fri 6/6/25					
95	Pavement Markings and Signing	65 days	Mon 3/10/25	Fri 6/6/25					
96	Submit Final Design Phase Plans	0 days	Fri 6/6/25	Fri 6/6/25			6/6		
97	PCDOT & ADOT Review	15 days	Mon 6/9/25	Fri 6/27/25			*		
98	Initial PS&E Plans	105 days	Mon 6/30/25	Fri 11/21/25			•	┥	
99	Roadway Plans	67 days	Mon 6/30/25	Tue 9/30/25					
	Task	Inactive Task		Manual Summa	ry Rollup	External Milestone	♦	Manual Pro	gress
Mader	a Canyon Road Bridges	Inactive Milesto	ne 💠	Manual Summa	ry	Deadline	•		
	rue 9/9/25 Milestone	Inactive Summa	ry	Start-only	Е	Critical		I	
	Summary	Manual Task		Finish-only	3	Critical Split		ı	
	Project Summary	Duration-only		External Tasks		Progress			



HDR Engineering, Inc.

HDR Project Number: 10416569

August 25, 2025

PIMA COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN ENGINEERING SERVICES FOR MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR) FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D

COST PROPOSAL FOR CONTRACT AMENDMENT 2

ADDITIONAL TASK A - DESIGN SERVICES (ADDITIONAL TCE & ROW DELINEATIONS)

ESTIMATED DIRECT LABOR:						
Staff Classification		Estimated Hours		Hourly Rate		Labor Cost
Project Principal		1.00	\$	122.06	\$	122.06
Project Manager		35.00	\$	93.67	\$	3,278.45
Senior A/E		7.00	\$	103.39	\$	723.73
A/E		59.00		71.89	\$	4,241.51
Junior A/E		6.00		49.58	\$	297.48
CADD Technician		100.00		56.20	\$	5,620.00
Administrative Support III		5.00		58.65	\$	293.25
Administrative Support II		5.00	\$	41.91	\$	209.55
Administrative Support I		1.00	\$	33.51	\$	33.51
Sub-	·Total (Direct Labor)	219.00			\$	14,819.54
OVERHEAR & ECCM.						
OVERHEAD & FCCM:	Overhead Rate	157.049/		Overhead Cost	ф	22 405 00
	Overneau Rate	137.9470	٥.,	b-Total (DL+OH)	-	23,405.98 38,225.52
	ECCM	0.4525%	Su	FCCM Cost		36,223.32 67.06
	FCCIVI	0.452576		FCCIVI COST	Φ	67.00
		Sub-To	otal	(DL+OH+FCCM)		\$38,292.58
PROFIT:	D £ D-+- (N-+ E)	40.000/	_	mafit (am DI 10II)	•	2 222 55
	Profit Rate (Net Fee)	10.00%	М	rofit (on DL+OH)	Þ	3,822.55
				Subtotal:		\$42,115.13
ESTIMATED DIRECT EXPENSES:						
Reproductions, Printing, & Misc.			\$	32.54		
3		Sub-Total Estimat	ted	Direct Expenses	\$	32.54
				•		
OUTSIDE SERVICES AND CONSULTA	NTS					
(Listed by Item at Actual Cost - NO MAR	KUP)			COST		
Alta Survey, LLC - Field Survey & ROW	,		\$	7.799.84		
, , -	Sı	ub-Total Outside Servic	_	and Consultants	\$	7,799.84
	Total Estima	ated Cost For Task A (C	cost	Plus Fixed Fee)		\$49,947.51

Hourly rates listed are average rates per category and are based on the rate schedule established for this contract. Actual hourly rates will be used for billing purposes in accordance with the cost plus fixed fee contract between HDR Engineering and Pima County.

ESTIMATED LABOR HOURS: TASK A - DESIGN SERVICES - CONTRACT AMENDMENT 2 - ADDITIONAL TCE & ROW DELINEATIONS MEDIUM WASH BRIDGE (4MADBR)

SUBCONSULTANT COSTS

										1			I	COSTS		
August 25, 2025	Project Principal	Project Manager	Senior A/E	A/E	Junior A/E	CADD Technician	Admin. Support	Admin. Support	Admin. Support	Total Hours Per Task	HDR Cost of Task	HDR Direct Expenses	Total HDR Cost of Task	ALTA Survey		al Cost of Task
August 25, 2025																
TASKS																
TASK A.1 PROJECT MANAGEMENT AND QUALITY CONTROL																
A.1.1 Add'l Project Management & Coordination (Cover Letter Item 1)	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$	\$	10,062.22
Subtotal Task A.1	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	- \$	10,062.22
TASK A.5 UTILITY COORDINATION																
A.5.1 Coordination required for waterlines serving the Santa Rita Ranch (meet with ranch staff, identify & resolve conflicts, find locations for sleeves through approaches, show on plans, details, and include requirements in Special Provisions.) (Cover Letter Item 2)	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	- \$	3,249.90
Subtotal Task A.5	0	2	1	9	3	1	0	0	0	16	\$ 3.247.34	\$ 2.56	\$ 3,249,90	\$ -	- \$	3,249.90
Subtotal Task A.S				9	J	•	U	U	U	10	φ 3,247.34	φ 2.30	\$ 3,249.90	Ψ	Ψ	3,249.90
TASK A.15 RIGHT-OF-WAY ACQUISITION SUPPORT- NEW TCE AND RIGHT-OF-WAY DELINEATION (SEE COVER LETTER)																
Legal Descriptions & Reference Maps for 1 area of new right-of-way, 1 area of TCE, 1 area of abandonment (Medium Wash Bridge)	0	2	0	20	0	70	0	0	0	92	\$ 15,798.33	\$ 15.97	\$ 15,814.29	\$ -	- \$	15,814.29
R/W Plan Preparation - Incorporate verification surveys and acquisition areas on R/W plan sheets (Medium Wash & Florida Canyon Wash Bridges by ALTA)	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 4,523.91	\$	4,523.91
ASLD Exhibit Preparation - Include new ROW and TCEs on the Geometric Layout Sheets	0	1	0	8	0	15	0	0	0	24	\$ 4,296.30	\$ 4.17	\$ 4,300.47	\$ -	\$	4,300.47
Supplemental Survey - Right-of-Way Verification Surveys (Verify existing monuments shown on plans are in place and in the correct location, Set new monuments) and locate fences (By ALTA)	0	1	0	2	0	5	0	0	0	8	\$ 1,473.36		\$ 1,474.75	·		4,750.69
Coordination - Additional Coordination with ASLD and											,			,		
Pima County	0	2	0	12	0	5	0	0	0	19	\$ 3,782.58	\$ 3.30	\$ 3,785.88	\$ -	\$	3,785.88
Quality Control Review of Documents	0	2	5	4	0	4	0	0	0	15	\$ 3,457.56	\$ 2.60	\$ 3,460.16	\$ -	\$	3,460.16
Subtotal Task A.15	0	8	5	46	0	99	0	0	0	158	\$ 28,808.13		\$ 28,835.55			36,635.39
TOTAL TASKS A.1, A.5, & A.15	1	35	7	59	6	100	5	5	1	219	\$ 42,115.13	\$ 32.54	\$ 42,147.67	\$ 7,799.84	\$	49,947.51

HDR Engineering, Inc.

HDR Project Number: 10416569 25-Aug-25

Reproduction & Plotting

1106	noduction & r to	9				
	Number	Unit	Uı	nit Cost		Cost
Task A.1 Project Management and Quality Control			-			
8 1/2" x 11" prints B&W	20	each	\$	0.045	\$	0.90
8 1/2" x 11" prints color	20	each	\$	0.135	\$	2.70
11" x17" prints B&W	20	each	\$	0.076	\$	1.52
					\$	5.12
Task A.5 Utility Coordination						
8 1/2" x 11" prints B&W	20	each	\$	0.045	\$	0.90
8 1/2" x 11" prints color	20	each	\$	0.135	\$	2.70
11" x17" prints B&W	20	each	\$	0.076	<u>\$</u>	1.52
					\$	5.12
Task A.15 Right-of-Way Acquisition Support						
Roll Plots (Color Bond) (2'x8') 2 Total	-	SF	\$	0.900	\$	-
8 1/2" x 11" prints B&W	30	each	\$	0.045	\$	1.35
8 1/2" x 11" prints color	30	each	\$	0.400	\$	12.00
11" x17" prints B&W	30	each	\$	0.550	\$	16.50
					\$	29.84
Miscellaneous printing					\$	25.00
Total Reproduction & Plotting					\$	65.08

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Total Direct Expenses:	<u>\$</u>	65.08
Total Estimated Cost For Task A (Medium Wash Bridge (4MADBR)	\$	32.54
Total Est. Cost For Task A (Florida Canyon Wash Bridge (4MADFL)	\$	32.54

ALTA Project Number: 241122

August 8, 2025



PIMA COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN ENGINEERING SERVICES FOR MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR) FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL) FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D

COST PROPOSAL **FOR**

CONTRACT AMENDMENT NO. 2 (ALTA CONTRACT MOD. 1) ADDITIONAL TASK A.7 - SURVEY AND MAPPING

ESTIMATED DIRECT LABOR: Staff Classification Registered Land Surveyor		Estimated Hours	\$	Hourly Rate 62.12	\$	Labor Cost 1,366.64
Survey Crew 2-Person		38	\$	60.20	\$	2,287.60
CAD Tech		48	\$	35.10	\$	1,684.80
Clerical/Admin		2	τ	28.00	\$	56.00
Sub-Total	(Direct Labor)	110	· ·		\$	5,395.04
OVERHEAD & FCCM:						
	Overhead Rate	167.73%	O۱	verhead Cost	\$	9,049.10
			Sub-T	otal (DL+OH)	•	14,444.14
	FCCM	0.0000%		FCCM Cost	\$	-
		Sub-To	otal (DL	+OH+FCCM)		\$14,444.14
PROFIT:	Profit Rate (Net Fee) 8.00% Profit (on DL+OH)					1,155.53
				Subtotal:		\$15,599.67
ESTIMATED DIRECT EXPENSES:						
None			\$	_		
		Sub-Total Estimat	ted Dire	ect Expenses	\$	-
				•		
OUTSIDE SERVICES AND CONSULTANTS						
(Listed by Item at Actual Cost - NO MARKUP))		(COST		
None			\$	_		
	Sı	\$	-			
Total Estimated Cost Fo	or Task A.7 (Cos	st Plus Fixed Fee) (Incl	udes B	oth Projects)		\$15,599.67
Total Est. Cost For Add'l Task A.7 (Medium Wa	sh Bridge (4MA	DBR) (Evenly Split bet	ween b	oth projects)	\$	7,799.84
Total Est. Cost For Add'l Task A.7 (Florida Cany						7,799.84

August 25, 2025

PIMA COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN ENGINEERING SERVICES FOR MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL) FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D

COST PROPOSAL FOR CONTRACT AMENDMENT 2

ADDITIONAL TASK A - DESIGN SERVICES (ADDITIONAL TCE & ROW DELINEATIONS)

ESTIMATED DIRECT LABOR: Staff Classification Project Principal Project Manager Senior A/E A/E Junior A/E CADD Technician Administrative Support III Administrative Support I Sub	-Total (Direct Labor)	Estimated Hours 1 35 7 59 6 100 5 5 1	\$ \$ \$ \$ \$ \$ \$ \$ \$	Hourly Rate 122.0600 93.6700 103.3900 71.8900 49.5800 56.2000 58.6500 41.9100 33.5100	\$\$\$\$\$\$\$\$\$	Labor Cost 122.0600 3,278.4500 723.7300 4,241.5100 297.4800 5,620.0000 293.2500 209.5500 33.5100
OVERHEAD & FCCM:	. ota: (5.100t 20001)	2.0			•	1 1,0 1010 100
	Overhead Rate	157.94%		Overhead Cost	\$	23,405.98
			Sub	-Total (DL+OH)	\$	38,225.52
	FCCM	0.4525%		FCCM Cost	\$	67.06
PROFIT:	Profit Rate (Net Fee)	Sub-To	\$	\$38,292.58 3,822.55		
	Tront reace (Net ree)	10.0070		ofit (on DL+OH) Subtotal:	Ψ	\$42,115.13
ESTIMATED DIRECT EXPENSES: Reproductions, Printing, & Misc.		Sub-Total Estimat	\$ ced C	32.54	\$	32.54
OUTSIDE SERVICES AND CONSULTA						
(Listed by Item at Actual Cost - NO MAR	KUP)			COST		
Alta Survey, LLC - Field Survey & ROW			\$	7,799.84		
	Sı	ub-Total Outside Servic	es a	nd Consultants	\$	7,799.84
	Total Estima	ated Cost For Task A (C	ost	Plus Fixed Fee)		\$49,947.51

Hourly rates listed are average rates per category and are based on the rate schedule established for this contract. Actual hourly rates will be used for billing purposes in accordance with the cost plus fixed fee contract between HDR Engineering and Pima County.

ESTIMATED LABOR HOURS: TASK A - DESIGN SERVICES - CONTRACT AMENDMENT 2 - ADDITIONAL TCE & ROW DELINEATIONS - FLORIDA CANYON WASH BRIDGE (4MADFL)

SUBCONSULTANT COSTS

														60313	
	Project Principal	Project Manager	Senior A/E	A/E	Junior A/E	CADD Technician	Admin. Support	Admin. Support	Admin. Support	Total Hours Per Task	HDR Cost of Task	HDR Direct Expenses		ALTA Survey	Total Cost of Task
August 25, 2025										ruon					
TASKS															
TASK A.1 PROJECT MANAGEMENT AND QUALITY CONTROL															
A.1.1 Add'l Project Management & Coordination (Cover															
Letter Item 1)	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	\$ 10,062.22
Subtotal Task A.1	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	- \$ 10,062.22
TASK A.5 UTILITY COORDINATION															
A.5.1 Coordination required for waterlines serving the Santa Rita Ranch (meet with ranch staff, identify & resolve conflicts, find locations for sleeves through approaches, show on plans, details, and include requirements in Special Provisions.) (Cover Letter Item															
2)	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
Subtotal Task A.5	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
														•	
TASK A.15 RIGHT-OF-WAY ACQUISITION SUPPORT - NEW TCE AND RIGHT-OF-WAY DELINEATION (SEE COVER LETTER)															
Legal Descriptions & Reference Maps for 2 areas of TCE, 1 area of abandonment (Florida Canyon Wash Bridge)	0	2	0	20	0	70	0	0	0	92	\$ 15,798.33	\$ 15.97	\$ 15,814.29	\$ -	- \$ 15,814.29
R/W Plan Preparation - Incorporate verification surveys and acquisition areas on R/W plan sheets (Medium Wash & Florida Canyon Wash Bridges by ALTA)	0	0	0	0	0	0	0	0	0	0	\$ -	- \$ -	\$ -	\$ 4,523.91	\$ 4,523.91
ASLD Exhibit Preparation - Include new ROW and TCEs on the Geometric Layout Sheets	0	1	0	8	0	15	0	0	0	24	\$ 4,296.30	\$ 4.17	\$ 4,300.47	\$ -	- \$ 4,300.47
Supplemental Survey - Right-of-Way Verification Surveys (Verify existing monuments shown on plans are in place and in the correct location, Set new monuments) and locate fences (By ALTA)	0	1	0	2	0	5	0	0	0	8	\$ 1,473.36	\$ 1.39	\$ 1,474.75	\$ 3,275.93	3 \$ 4,750.69
Coordination - Additional Coordination with ASLD and Pima County	0	2	0	12	0	5	0	0	0	19	\$ 3,782.58	\$ 3.30	\$ 3,785.88	\$ -	- \$ 3,785.88
Quality Control Review of Documents	0	2	5	4	0	4	0	0	0	15	\$ 3,457.56	\$ 2.60	\$ 3,460.16	\$ -	- \$ 3,460.16
Subtotal Task A.15	0	8	5	46	0	99	0	0	0	158	\$ 28,808.13	\$ 27.42	2 \$ 28,835.55	\$ 7,799.84	\$ 36,635.39
TOTAL TASKS A.1, A.5, & A.15	1	35	7	59	6	100	5	5	1	219	\$ 42,115.13	\$ 32.54	\$ 42,147.67	\$ 7,799.84	\$ 49,947.51

HDR Engineering, Inc.

HDR Project Number: 10416569 25-Aug-25

Reproduction & Plotting

		9				
	Number	Unit	Uı	nit Cost		Cost
Task A.1 Project Management and Quality Control	<u></u>		-			
8 1/2" x 11" prints B&W	20	each	\$	0.045	\$	0.90
8 1/2" x 11" prints color	20	each	\$	0.135	\$	2.70
11" x17" prints B&W	20	each	\$	0.076	\$	1.52
					\$	5.12
Task A.5 Utility Coordination						
8 1/2" x 11" prints B&W	20	each	\$	0.045	\$	0.90
8 1/2" x 11" prints color	20	each	\$	0.135	\$	2.70
11" x17" prints B&W	20	each	\$	0.076	<u>\$</u>	1.52
					\$	5.12
Task A.15 Right-of-Way Acquisition Support						
Roll Plots (Color Bond) (2'x8') 2 Total	-	SF	\$	0.900	\$	-
8 1/2" x 11" prints B&W	30	each	\$	0.045	\$	1.35
8 1/2" x 11" prints color	30	each	\$	0.400	\$	12.00
11" x17" prints B&W	30	each	\$	0.550	\$	16.50
					\$	29.84
Miscellaneous printing					\$	25.00
•						
Total Reproduction & Plotting					\$	65.08

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Total Direct Expenses:	<u>\$</u>	65.08
Total Estimated Cost For Task A (Medium Wash Bridge (4MADBR)	\$	32.54
Total Est. Cost For Task A (Florida Canyon Wash Bridge (4MADFL)	\$	32.54

ALTA Project Number: 241122

ESTIMATED DIRECT LABOR:

August 8, 2025



PIMA COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN ENGINEERING SERVICES FOR MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR) FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL)

FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D

COST PROPOSAL **FOR**

CONTRACT AMENDMENT NO. 2 (ALTA CONTRACT MOD. 1) ADDITIONAL TASK A.7 - SURVEY AND MAPPING

ESTIMATED DIRECT LABOR:				
Staff Classification	Estimated Hours		Hourly Rate	Labor Cost
Registered Land Surveyor	22	\$	62.12	\$ 1,366.64
Survey Crew 2-Person	38	\$	60.20	\$ 2,287.60
CAD Tech	48	\$	35.10	\$ 1,684.80
Clerical/Admin	2	\$	28.00	\$ 56.00
Sub-Total (Direct Labor)	110			\$ 5,395.04
OVERHEAD & FCCM:				
Overhead Rate	167.73%	(Overhead Cost	\$ 9,049.10
		Sub	-Total (DL+OH)	\$ 14,444.14
FCCM	0.0000%		FCCM Cost	\$ -
PROFIT.	Sub-To	otal (I	DL+OH+FCCM)	\$14,444.14
PROFIT: Profit Rate (Net Fee)	8.00%	Pro	ofit (on DL+OH)	\$ 1,155.53
			Subtotal:	\$15,599.67
ESTIMATED DIRECT EXPENSES:				
None		\$	-	
	Sub-Total Estima	ted D	irect Expenses	\$ -
OUTSIDE SERVICES AND CONSULTANTS				
(Listed by Item at Actual Cost - NO MARKUP)			COST	
None		\$	_	
	ıb-Total Outside Servic	ces ar	nd Consultants	\$ -
Total Estimated Cost For Task A.7 (Cos	st Plus Fixed Fee) (Incl	udes	Both Projects)	\$15,599.67
Total Est. Cost For Add'l Task A.7 (Medium Wash Bridge (4MA	DBR) (Evenly Split bet	ween	both projects)	\$ 7,799.84
Total Est. Cost For Add'l Task A.7 (Florida Canyon Bridge (4MA	, ,			7,799.84